

ART 34 ANDT

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## SEQUENCE LISTING

&lt;110&gt; ZONAGEN, INC.

&lt;120&gt; HUMAN CHORIONIC GONADOTROPIN

&lt;130&gt; 27779/35932

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&lt;141&gt;

&lt;150&gt; 60/100,766

&lt;151&gt; 1998-09-17

&lt;160&gt; 4

&lt;170&gt; PatentIn Ver. 2.0

&lt;210&gt; 1

&lt;211&gt; 534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)...(534)

&lt;400&gt; 1

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tgg gaa aac ccg ggc tgc aga gat ctc aag gag ccg ctt cgg cca cgg	96
Trp Glu Asn Pro Gly Cys Arg Asp Leu Lys Glu Pro Leu Arg Pro Arg	
20 25 30	
tgc cgc ccc atc aat gcc acc ctg gct gtg gag aag gag ggc tgc ccc	144
Cys Arg Pro Ile Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro	
35 40 45	
gtg tgc atc acc gtc aac acc acc atc tgt gcc ggc tac tgc ccc acc	192
Val Cys Ile Thr Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr	
50 55 60	
atg acc cgc gtg ctg cag ggg gtc ctg ccg gcc ctg cct cag gtg gtg	240
Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val	
65 70 75 80	
tgc aac tac cgc gat gtg cgc ttc gag tcc atc cgg ctc cct ggc tgc	288
Cys Asn Tyr Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys	
85 90 95	
ccg cgc ggc gtg aac ccc gtg gtc tcc tac gcc gtg gct ctc agc tgt	336
Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys	
100 105 110	
caa tgt gca ctc tgc cgc cgc agc acc act gac tgc ggg ggt ccc aag	384
Gln Cys Ala Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys	
115 120 125	

"10150" 1015000

ART 34 AMST

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432 gac cac ccc tgg acc tgt gat gac ccc cgc ttc cag gac tcc tct tcc  
Asp His pro Leu Thr Cys Asp Asp pro Arg phe Gln Asp Ser Ser Ser  
130 135 140  
480 tca aag gcc cct ccc ccc agc ctc cca agc cca tcc cga ctc ccg ggg  
Ser Lys Ala pro pro pro Ser Ser Leu pro Ser pro Arg Leu pro Gly  
145 150 155 160  
528 ccc tgg gac acc ccg atc ctc cca act agt ccc cac cat cac cac  
Pro Ser Asp Thr pro Ile Leu pro Gln Thr Ser His His His His  
165 170 175  
534 cat taa His

<210> 2  
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<212> PRT  
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Cys Arg pro Ile Asn Ala Thr Leu Ala Val Gln Lys Gln Gly Cys pro  
35 40 45  
Val Cys Ile Thr Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys pro Thr  
50 55 60  
Met Thr Arg Val Leu Gln Gly Val Leu pro Ala Leu pro Gln Val Val  
65 70 75  
Cys Asn Tyr Arg Asp Val Arg phe Gln Ser Ile Arg Leu pro Gly Cys  
85 90 95  
Pro Arg Gly Val Asn pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys  
100 105 110  
Gln Cys Ala Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly pro Lys  
115 120 125  
Asp His pro Leu Thr Cys Asp Asp pro Arg phe Gln Asp Ser Ser Ser  
130 135 140  
Ser Lys Ala pro pro pro Ser Ser Leu pro Ser pro Arg Leu pro Gly  
145 150 155 160  
Pro Ser Asp Thr pro Ile Leu pro Gln Thr Ser His His His His  
165 170 175

AMENDED SHEET

ART 34 AMDT

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His

<210> 3  
<211> 773  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (7)..(765)

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tcc tcc gca tta gct gct cca gtc aac act aca aca gaa gat gaa acg 96  
Ser Ser Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr  
15 20 25 30

gca caa att ccg gct gaa gct gtc atc ggt tac tca gat tta gaa ggg 144  
Ala Gln Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly  
35 40 45

gat ttc gat gtt gct gtt ttg cca ttt tcc aac agc aca aat aac ggg 192  
Asp Phe Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly  
50 55 60

tta ttg ttt ata aat act act att gcc agc att gct gct aaa gaa gaa 240  
Leu Leu Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu  
65 70 75

ggg gta tct ctc gag aaa aga gag gct gaa gct tac gta gaa ttc gac 288  
Gly Val Ser Leu Glu Lys Arg Glu Ala Glu Ala Tyr Val Glu Phe Asp  
80 85 90

ccg ggc tgc aga gat ctc aag gag ccg ctt cgg cca cgg tgc cgc ccc 336  
Pro Gly Cys Arg Asp Leu Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro  
95 100 105 110

atc aat gcc acc ctg gct gtg gag aag gag ggc tgc ccc gtg tgc atc 384  
Ile Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile  
115 120 125

acc gtc aac acc acc atc tgt gcc ggc tac tgc ccc acc atg acc cgc 432  
Thr Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg  
130 135 140

gtg ctg cag ggg gtc ctg ccg gcc ctg cct cag gtg gtg tgc aac tac 480  
Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr  
145 150 155

cgc gat gtg cgc ttc gag tcc atc cgg ctc cct ggc tgc ccg cgc ggc 528  
Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly  
160 165 170

gtg aac ccc gtg gtc tcc tac gcc gtg gct ctc agc tgt caa tgt gca 576  
Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala  
175 180 185 190

AMENDED SHEET

ATT 34 ANDT

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etc tgc cgc cgc agc acc act gac tgc ggg ggt ccc aag gac cac ccc 624  
 leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro  
 195 200 205

ttg acc tgt gat gac ccc cgc ttc cag gac tcc tct tcc tca aag gcc 672  
 leu Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala  
 210 215 220

cct ccc ccc agc ctt cca agc cca tcc cga ctc ccg ggg ccc tgc gac 720  
 pro pro pro ser leu pro ser pro ser arg leu pro gly pro ser asp  
 225 230 235

acc ccg atc ctc cca caa act agt cac cac cat cac cac cat taa 765  
 thr pro ile leu pro gln thr ser his his his his his his  
 240 245 250

taggatcc 773

<210> 4  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens

<400> 4  
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 20 25 30

Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe  
 35 40 45

Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu  
 50 55 60

Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val  
 65 70 75 80

Ser Leu Glu Lys Arg Glu Ala Glu Ala Tyr Val Glu Phe Asp Pro Gly  
 85 90 95

Cys Arg Asp Leu Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn  
 100 105 110

Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr Val  
 115 120 125

Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg Val Leu  
 130 135 140

Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg Asp  
 145 150 155 160

Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val Asn  
 165 170 175

ART 34 AMED

21. 2000

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MARSHALL, O TOOLE

NO. 3420

1971

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Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu Cys  
180 185 190

Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu Thr  
195 200 205

Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro Pro  
210 215 220

Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro  
225 230 235 240

Ile Leu Pro Gln Thr Ser His His His His His His  
245 250

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